



Computer-Assisted Manipulation of Catheters and Guide Wires
Schneider et al.
Application Serial No. 10/608,862
Replacement Sheet 1

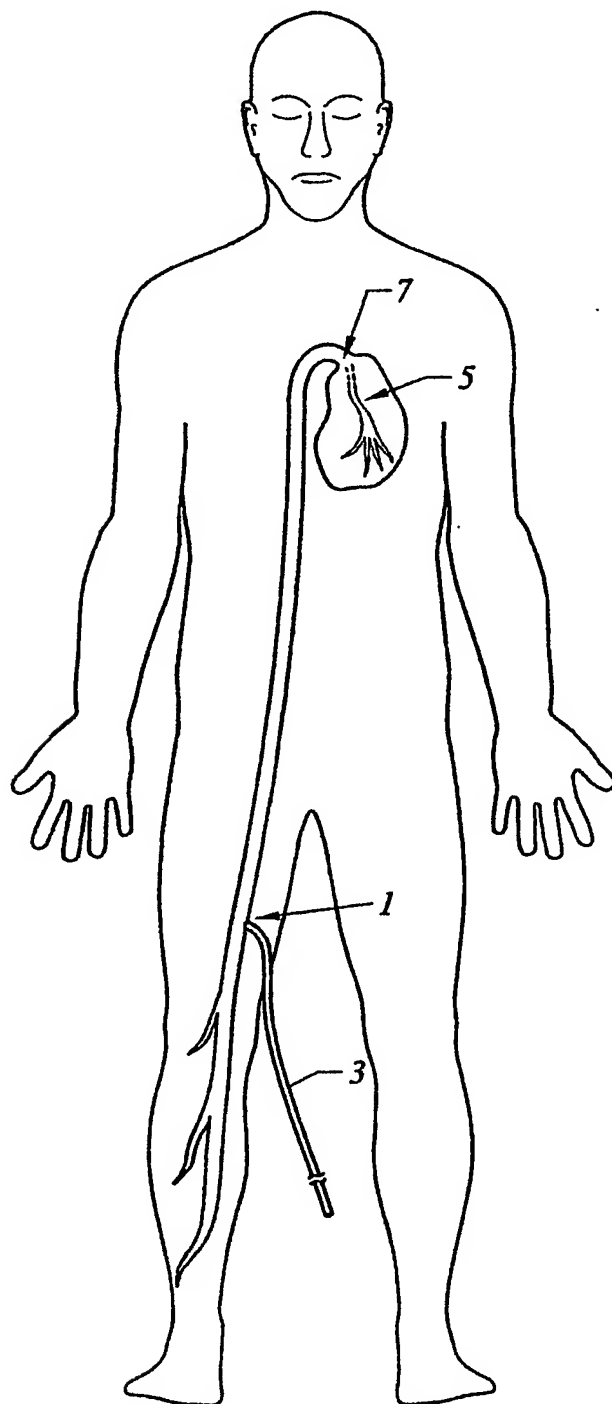
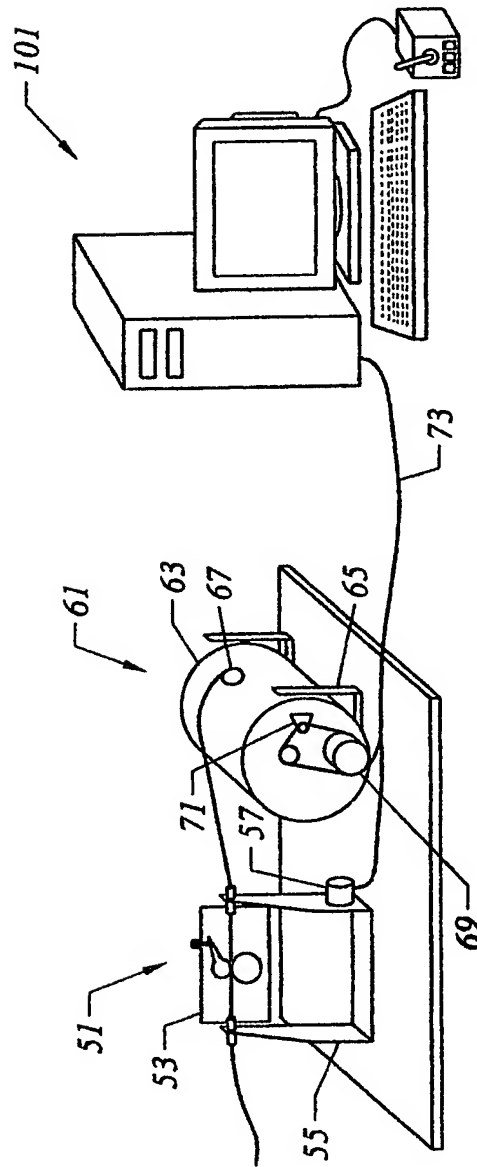


FIG. 1

Computer-Assisted Manipulation of Catheters and Guide Wires
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Replacement Sheet 2



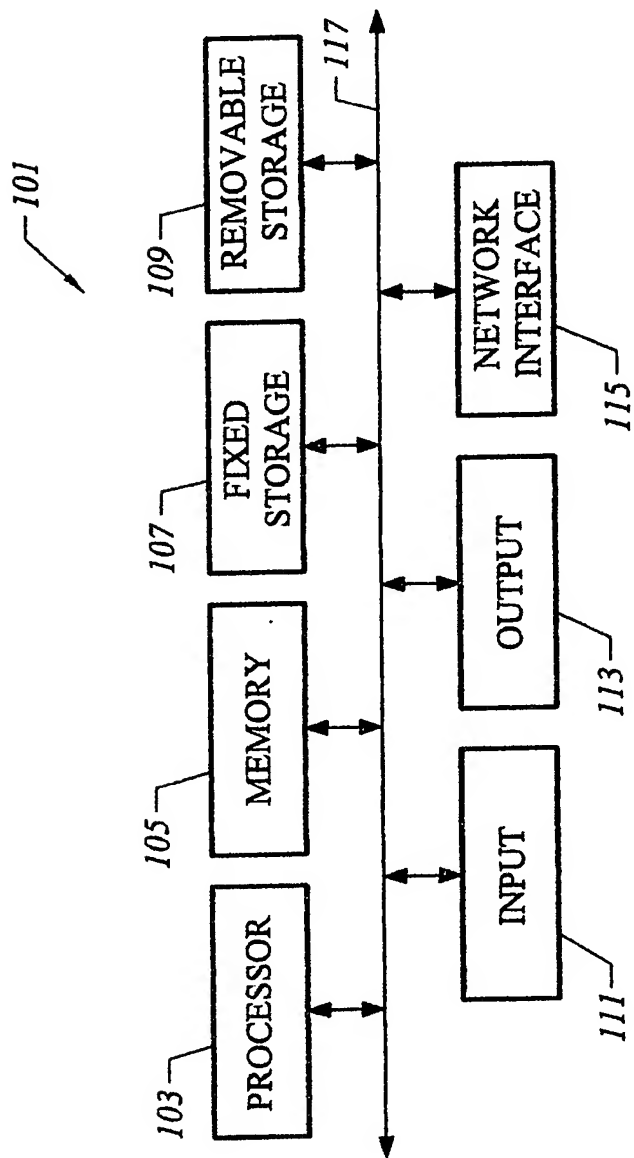


FIG. 3

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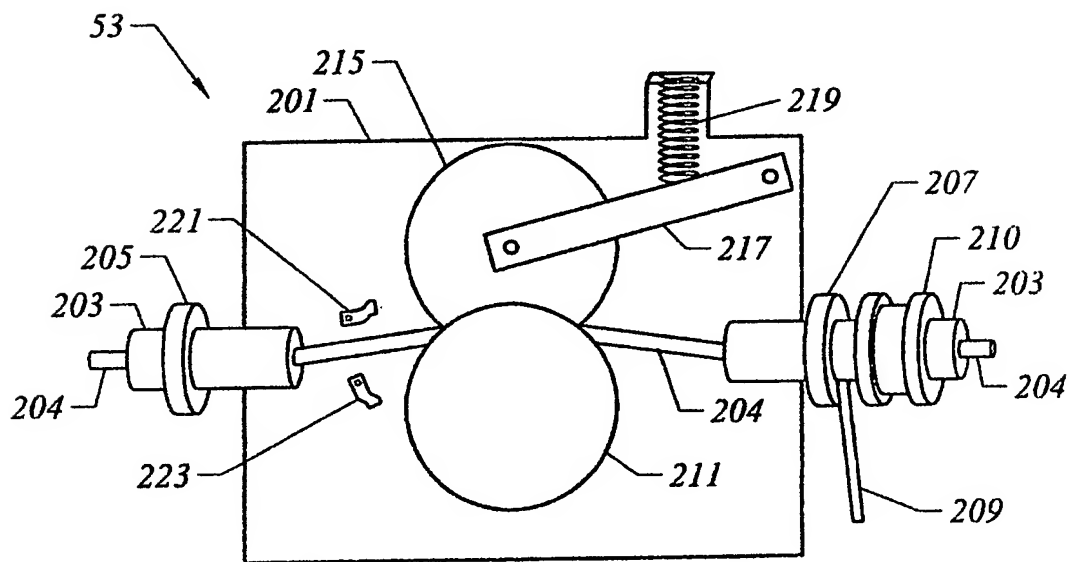


FIG. 4A

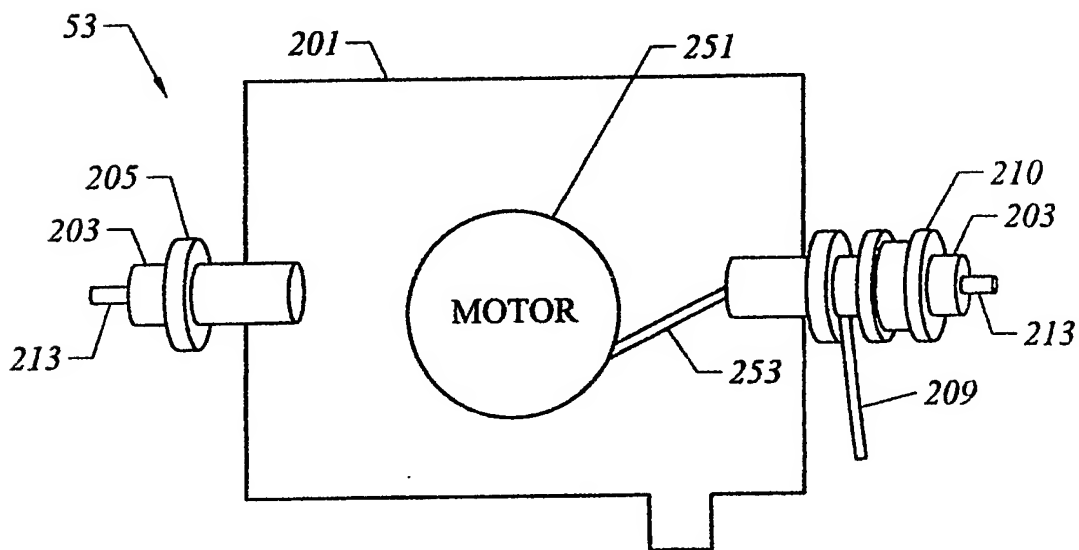


FIG. 4B

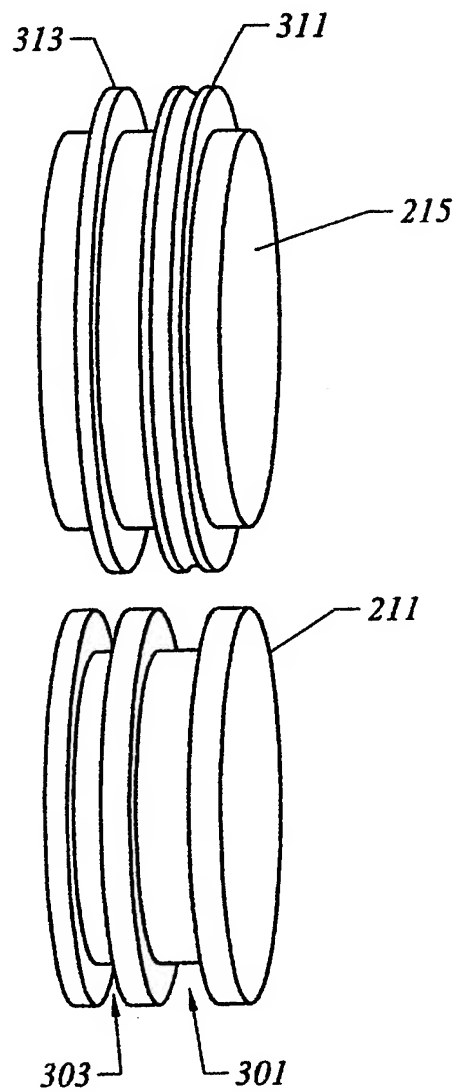


FIG. 5

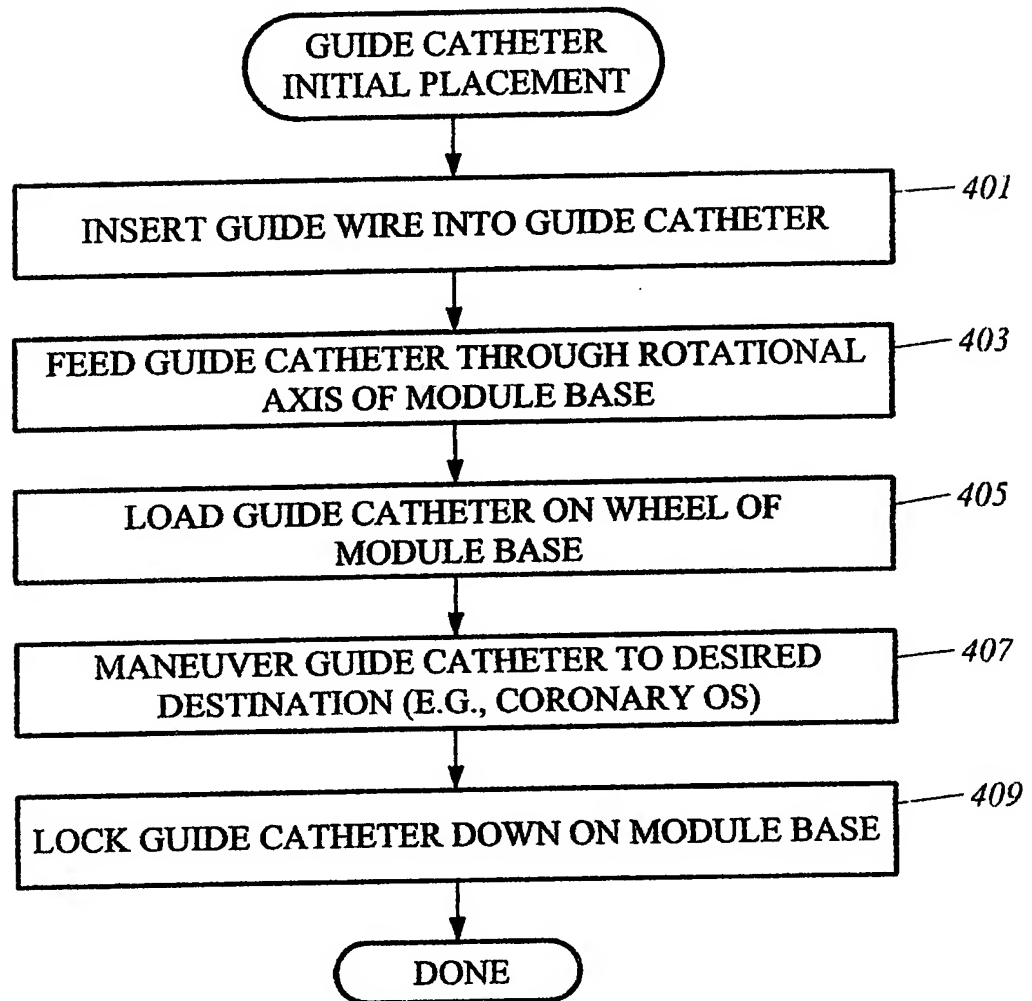


FIG. 6

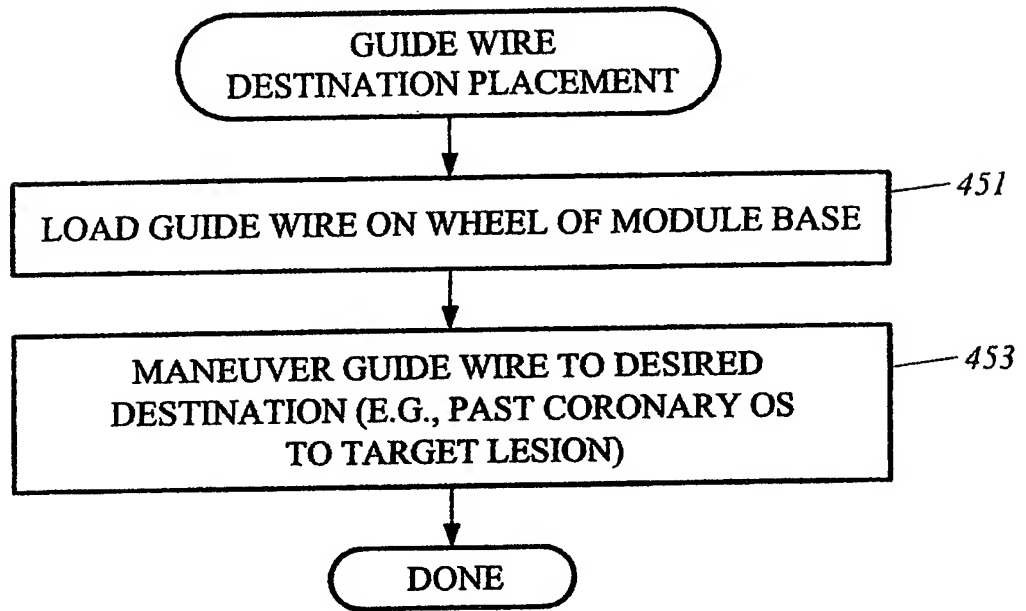


FIG. 7

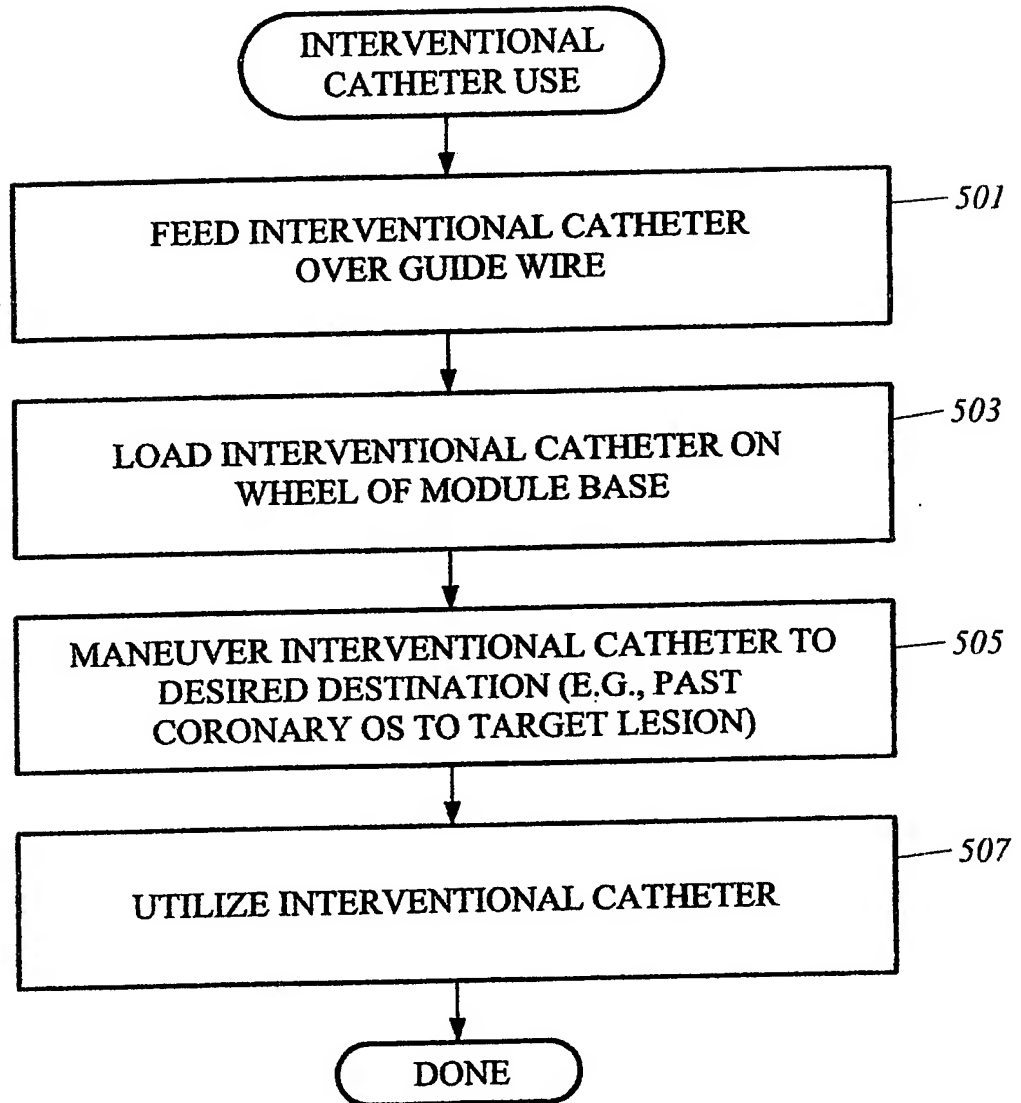


FIG.8

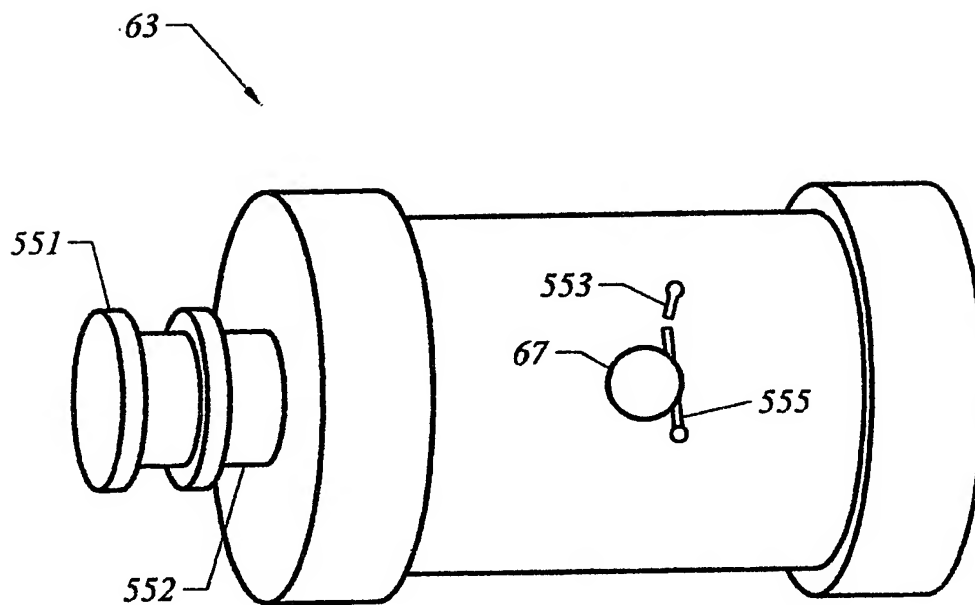


FIG. 9

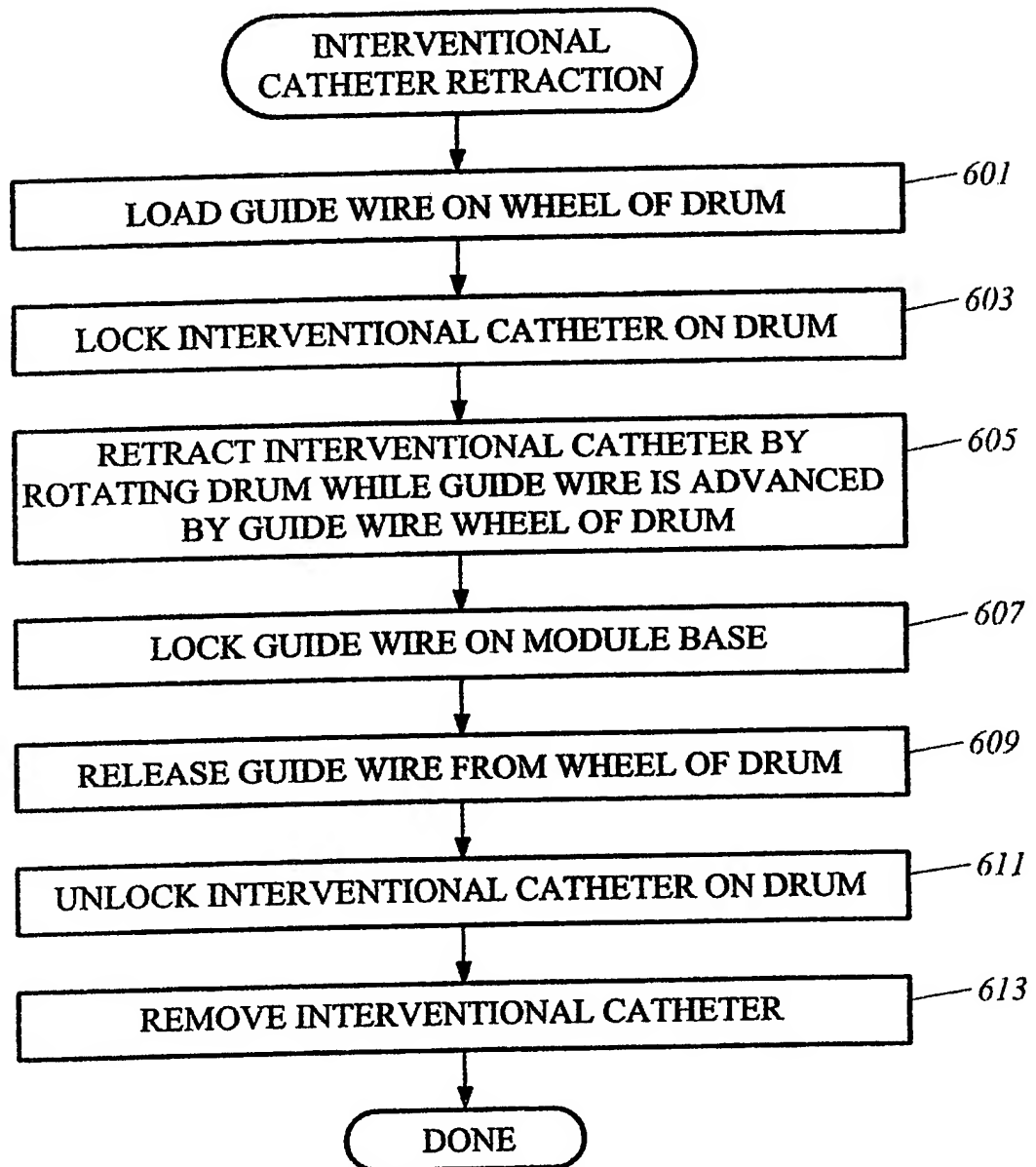
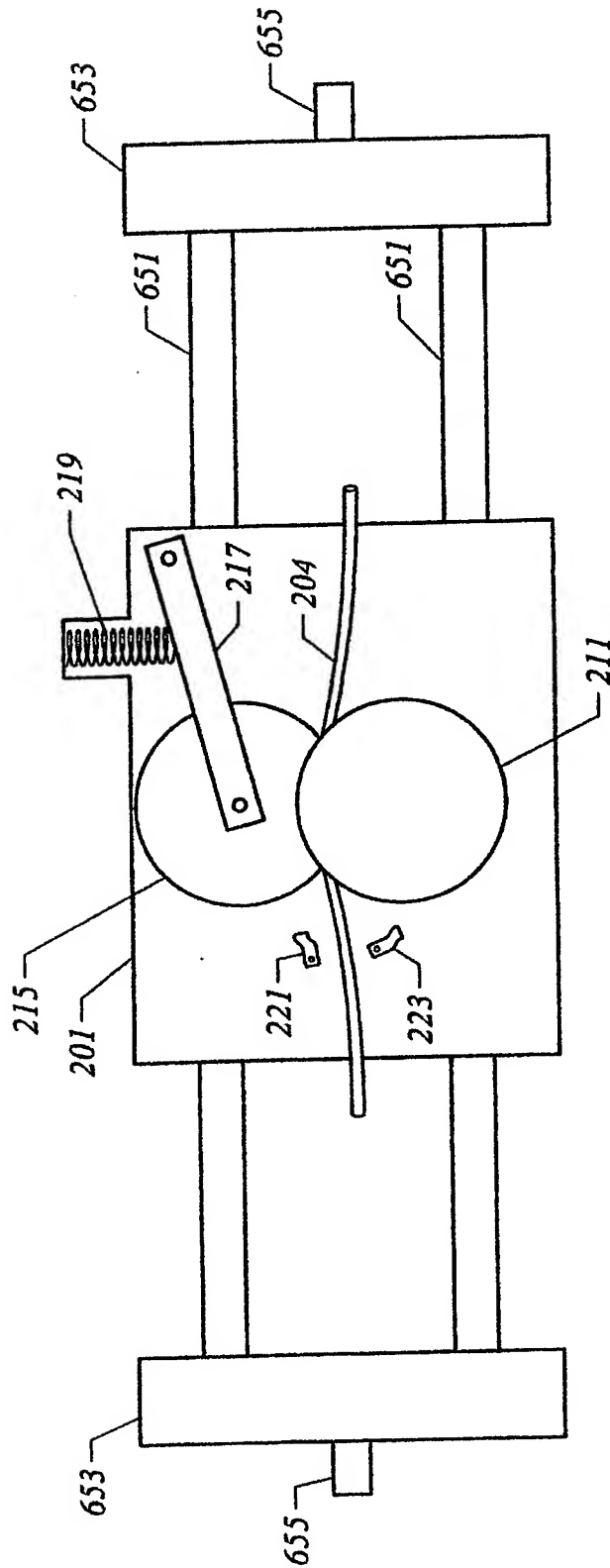


FIG. 10



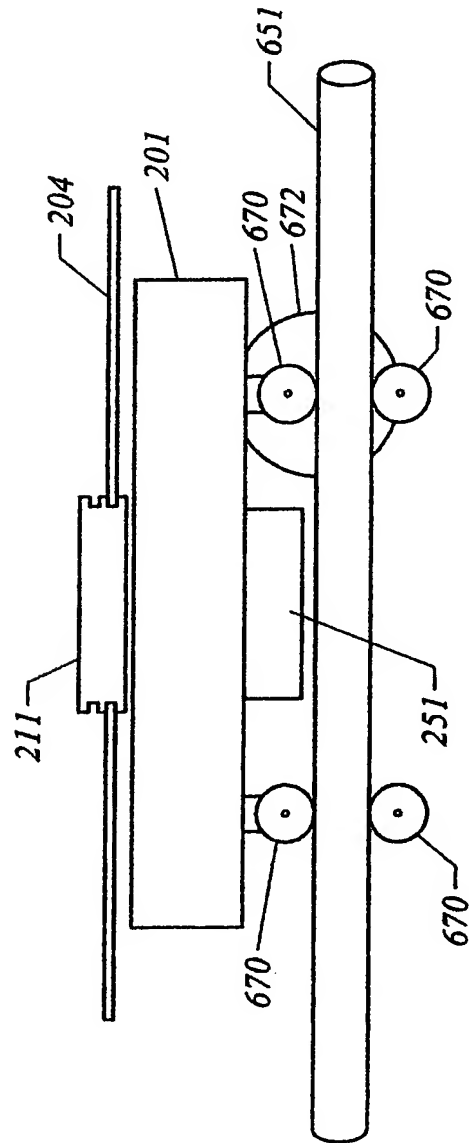


FIG. 11B

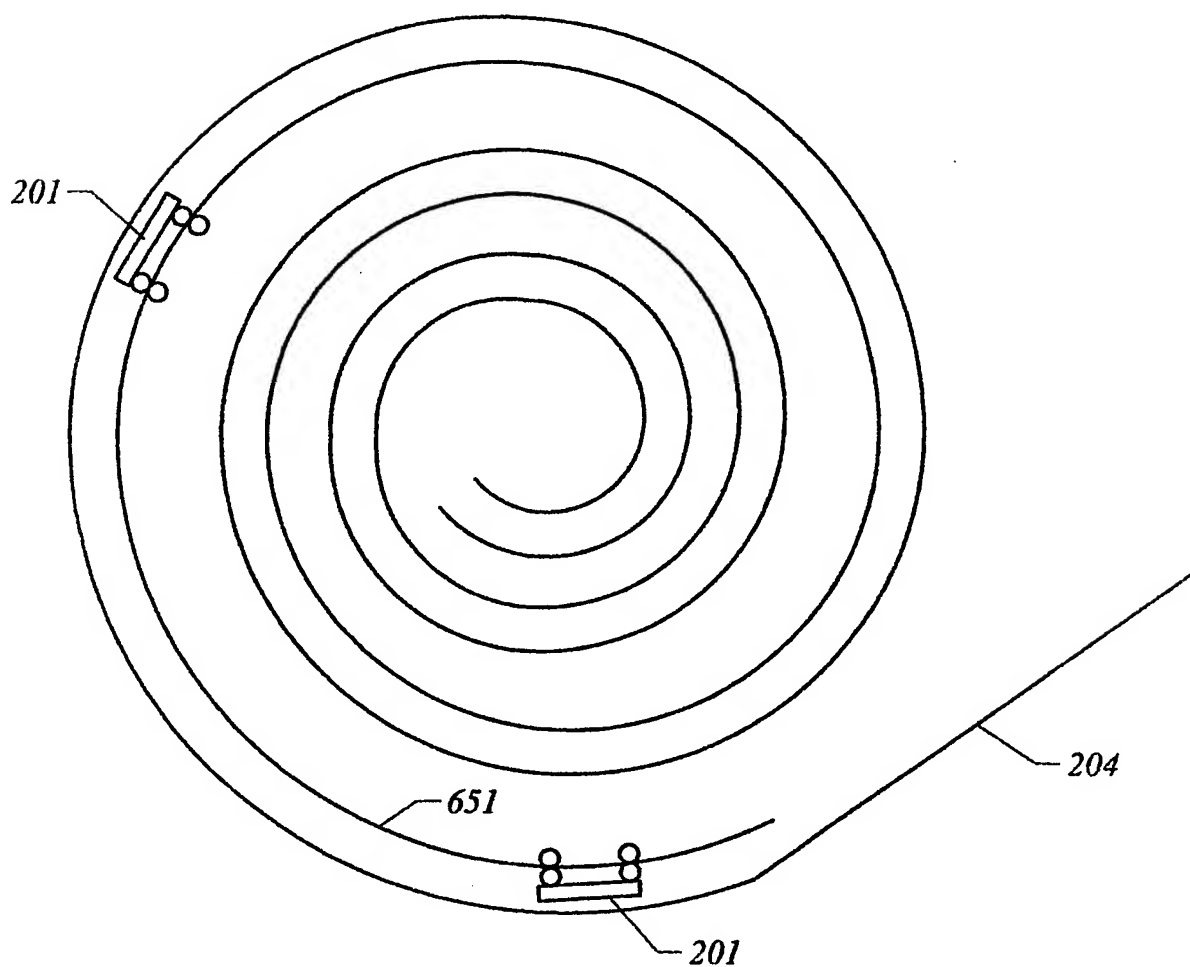


FIG. 12

Computer-Assisted Manipulation of Catheters and Guide Wires
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 Replacement Sheet 14

Mod-Base Wheel Count Rate

☐ Advance ☐ Clockwise (CW) ☐ Counter CW

Drum Wheel Count Rate

☐ Advance ☐ Withdraw

SELECTED ACTION SET (BB3 Up, BB4 Down)

Move Guide Wire (with Rotation) [only device inserted]
 Move Guide Catheter and Guide Wire (with Rotation)
 Move Guide Catheter (with Rotation) - Hold Guide Wire
 Move Guide Wire - Hold Guide Catheter
 Move Interventional Catheter & (if applic.) Guide Wire (with Rotation)
 Move Interventional Catheter (with Rotation) - Hold Guide Wire
 Move Guide Wire (with Rotation) - Hold Interventional Catheter
 Move Module-Base Wheel Alone
 Rotate Module Base Alone
 Move Drum Alone
 Move Drum Wheel Alone

Mod-Base Wheel To Drum Ratio

Drum Wheel To Drum Ratio

Y-Stepper Velocity **X-Stepper Velocity**

Per(MOD_BASE_WHEEL) **Per(DRUM_WHEEL)** **Per(DRUM_ITSELF)**

Y-Bass Speed Multiplier

Release All Motors (BB1)

Interventional Catheter on Module-Base Wheel and Drum
Guide Wire on Drum Wheel
Guide Catheter Clamped on Module Base

Joystick
 X
 Y
 Z
 PD

Settings
 Parallel Port
 Controlled Functions
☒ Mod-Base Wheel - Advance/Withdraw Catheter
☒ Rotate Module Base
☒ Rotate Drum
☒ Drum Wheel - Advance/Withdraw Wire

View-point control could be used for functions such as:
 Flush Catheter, (Measure Pressure), etc.
☐ Flex Catheter
☐ Inject Catheter
☐ Withdraw Sample

Preferences

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FIG. 13